



2834

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: LEE DOCKET NO.: 3798P2384  
SERIAL NO: 10/007,239 EXAMINER: NGUYEN  
FILED: 11/13/2001 ART UNIT: 2834  
TITLE: ROTOR FOR SYNCHRONOUS MOTOR AND METHOD OF  
MANUFACTURING THE SAME

Mail Stop: Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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April 21, 2004

I hereby certify that on the 21st day of April, 2004,  
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Alexandria, VA 22313-1450.

  
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Jeffrey D. Moy

**AMENDMENT LETTER**

Dear Sir:

This is in response to the Office Action dated January  
23, 2004 in regards to the above identified patent application.  
Please amend the subject patent application as follows:

**IN THE BRIEF DESCRIPTION OF THE DRAWINGS**

Please amend the Brief Description of the Drawings as follows:

Page 4, starting at the first full paragraph on line 6, amend as follows:

FIG. 1 is a longitudinal sectional view showing a conventional rotor of a synchronous motor;

FIG. 2 is a plan view showing each thin iron sheet forming the main core of FIG. 1;

FIG. 3A is a longitudinal sectional view showing a rotor of a synchronous motor according to the present invention;

FIG. 3B is a cross sectional view showing the rotor of the synchronous motor taken along the line of A-A' of FIG. 3A in accordance with the present invention;

FIG. 4A is a plan view showing the thin iron sheets forming the main core of FIG. 3A; ~~and~~

FIG. 4B is a plan view showing the thin iron sheets forming the first supplementary cores of FIG. 3 A; and

FIG. 4c is a plan view showing the thin iron sheets forming the second supplementary core of FIG. 3 A.

### IN THE DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Please amend the Detailed Description Of The Preferred Embodiment as follows:

Page 7, second full paragraph starting on Page 7, amend as follows:

Each thin iron sheet 120 forming the first supplementary core 134a (hereinafter called first supplementary core sheet), has a hole 121, corresponding to the thin iron sheets 110 forming the main core 131. From the hole 121, induced conductor holes 123 are formed to correspond to the thin iron sheets 110 of the main core 131. Additionally, the calkings 124 and the magnetic flux leakage preventing holes 125 are also formed to correspond to the thin iron sheets 110 of the main core 131. The magnet holes 112, formed at the thin iron sheets 110 of the main core 131, are not formed on at the thin iron sheets 120 of the first supplementary core 134a. The ~~, and the~~ hole 121 is extended. ~~The hole 121 is expanded~~ to correspond to the outer structure connected with the rotor 130. On the other hand, the thin iron sheets (~~not shown~~ See Figure 4C) forming the second supplementary core 134b has the same size hole 131 as the thin iron sheets 110 of the main core 131. Except for the hole 131, ~~the shape of the thin iron sheet 130 of~~ the second supplementary core 134b is the same as the thin iron sheet 120 of ~~that of~~ the first supplementary core 134a.